**Problem Statement 2:**

**Create a database**

employee (employee name, street, city) ,employee name is primary key

works (employee name, company name, salary)

company (company name, city) ,company name is primary key

manages (employee name, manager name)

create table employee (

employeename varchar(20) primary key,

street varchar(20),

city varchar(20)

);

create table company(

companyname varchar(20) primary key,

city varchar(20)

);

create table works(

employeename varchar(20),

companyname varchar(20),

salary real,

primary key (employeename,companyname),

foreign key (employeename) references employee(employeename),

foreign key (companyname) references company(companyname)

);

create table manages(

employeename varchar(20),

managername varchar(20),

primary key (employeename,managername),

foreign key (employeename) references employee(employeename),

foreign key (managername) references employee(employeename)

);

insert into employee values ('Isha','NeheruNagar','Pune');

insert into employee values ('Avadhut','NeheruNagar','Pune');

insert into employee values ('Sanjana','BalajiNagar','Katraj');

insert into employee values ('Samu','BalajiNagar','Katraj');

insert into employee values ('Adi','GpRoad','Nashik');

insert into employee values ('Mansi','GpRoad','Nashik');

select \* from employee;

insert into company values('FirstBankCorporation','Pune');

insert into company values('StateBank','Pune');

insert into company values('YesBank','Nahsik');

insert into company values('HSBCBank ','Pune');

insert into company values('TJSBBank ','Nashik');

insert into company values('CenteralBank ','Nashik');

select \* from company;

insert into works values ('Isha','FirstBankCorporation',40000);

insert into works values ('Avadhut','StateBank',30000);

insert into works values ('Sanjana','YesBank',35000);

insert into works values ('Samu','HSBCBank ',25000);

insert into works values ('Adi','TJSBBank',15000);

insert into works values ('Mansi','CenteralBank',10000);

select \* from works;

insert into manages values ('Isha','Avadhut');

insert into manages values('Samu','Adi');

insert into manages values('Sanjana','Mansi');

select \* from manages;

**Give an expression in SQL for each of the following queries**.

1)Find the names of all employees who work for First Bank Corporation.

select employeename from works where companyname='FirstBankCorporation';

2)Find all employees who do not work for First Bank Corporation

select employeename from works where companyname<>'FirstBankCorporation';

3)Find the company that has most employees.

select max(companyname) from company;

SELECT companyname FROM works GROUP BY companyname HAVING count(\*) = ( SELECT count(\*) FROM works GROUP BY company-name

ORDER BY count(\*) DESC LIMIT 1)

4)Find all companies located in every in which small bank corporation is located

SELECT companyname, city FROM company UNION ALL SELECT companyname, city FROM company WHERE companyname = 'StateBank';

5)Find details of employee having salary greater than 10,000.

select \* from works where salary>10000;

6)Update salary of all employees who work for First Bank Corporation by 10%.

UPDATE works SET salary= salary + (salary \* 10/ 100) WHERE companyname='FirstBankCorporation';

7)Find employee and their managers.

select \* from manages;

8)Find the names, street and cities of all employees who work for First Bank Corporation and earn more than 10,000.

SELECT e.employeename , e.street, e.city from employee e,works w WHERE w.companyname='FirstBankCorporation' and w .salary>10000 and e.employeename=w.employeename;

9)Find those companies whose employees earn a higher salary,on average, than th average salary at First Bank Corporation

select companyname from works group by companyname having avg(salary)>(select avg(salary) from works where companyname='First Bank Corporation');

select dname, count(\*) count\_of\_employees from dept, emp where dept.deptno = emp.deptno group by DNAME order by desc